

chain nodes :

14 15 16 17 18 19 20 21 22 23 28 29 30 32 33 34 37 38 39 42 44 45
46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 75

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12

chain bonds :

2-37 5-38 11-37 14-17 15-16 16-18 19-20 21-22 21-23 28-29 28-30 32-33 32-34
38-39 39-42 39-44 39-75 45-46 46-47 48-49 48-50 51-52 52-53 52-54 55-56 56-57
56-58 59-60 61-62 63-64 64-65 64-66

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

exact/norm bonds :

2-37 5-38 11-37 28-29 28-30 32-33 32-34 38-39 39-44 39-75 45-46 46-47 48-49
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exact bonds :

14-17 15-16 16-18 19-20 21-22 21-23 39-42

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

isolated ring systems :

containing 1 : 7 :

G1:[*1],[*2],[*3],[*4],[*5],[*6]

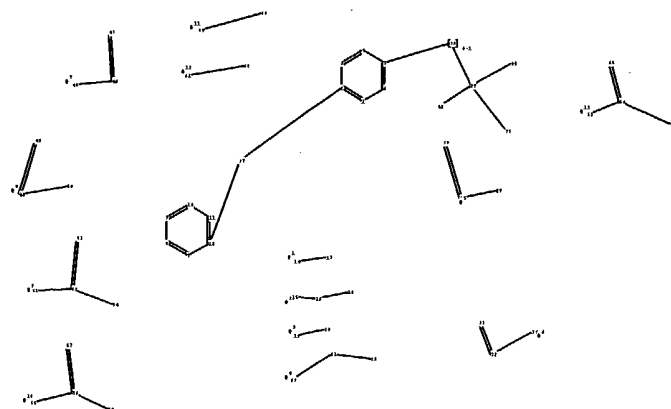
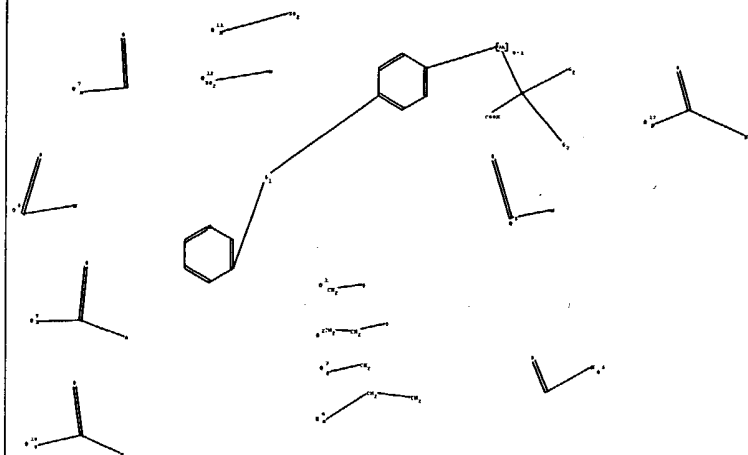
G2:H,CH3,Et

G3:[*5],[*6],[*7],[*8],[*9],[*10],[*11],[*12],[*13]

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom
12:Atom 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS 21:CLASS
22:CLASS 23:CLASS 28:CLASS 29:CLASS 30:CLASS 32:CLASS 33:CLASS 34:CLASS 37:CLASS
38:CLASS 39:CLASS 42:CLASS 44:CLASS 45:CLASS 46:CLASS 47:CLASS 48:CLASS 49:CLASS
50:CLASS 51:CLASS 52:CLASS 53:CLASS 54:CLASS 55:CLASS 56:CLASS 57:CLASS 58:CLASS
59:CLASS

60:CLASS 61:CLASS 62:CLASS 63:CLASS 64:CLASS 65:CLASS 66:CLASS 75:CLASS



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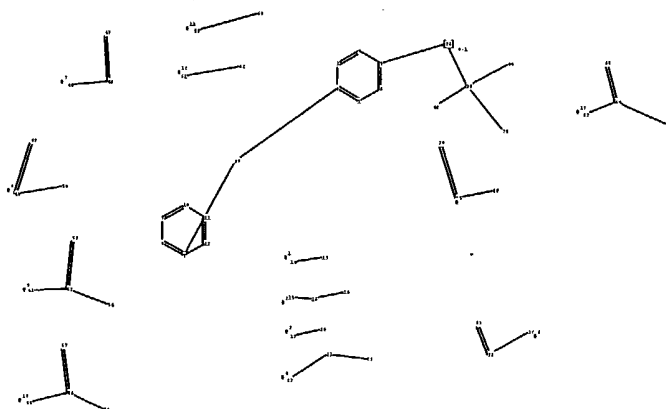
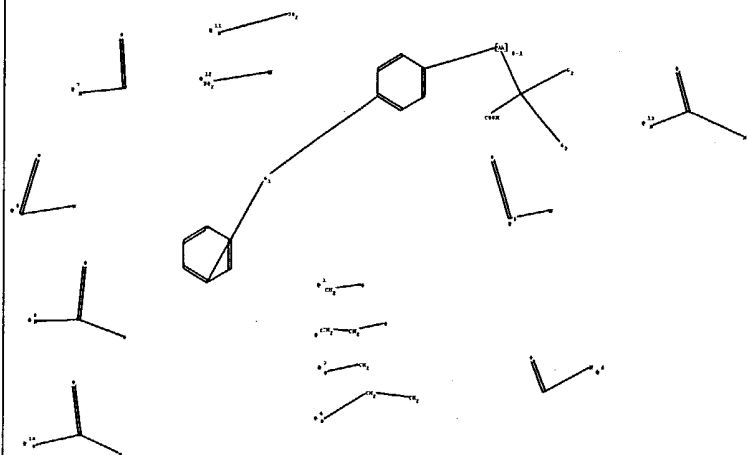
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59:CLASS

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```
=> file reg
COST IN U.S. DOLLARS                SINCE FILE      TOTAL
                                     ENTRY      SESSION
FULL ESTIMATED COST                2.48      166.93
```

FILE 'REGISTRY' ENTERED AT 11:53:58 ON 12 AUG 2004
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
 COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
 provided by InfoChem.

STRUCTURE FILE UPDATES: 11 AUG 2004 HIGHEST RN 725685-10-9
 DICTIONARY FILE UPDATES: 11 AUG 2004 HIGHEST RN 725685-10-9

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when
 conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
 information enter HELP PROP at an arrow prompt in the file or refer
 to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

```
=>
L5      STRUCTURE UPLOADED
```

```
=> d 15
L5 HAS NO ANSWERS
L5      STR
```

```
=> s 15
SAMPLE SEARCH INITIATED 11:55:47 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      44 TO ITERATE
```

```
100.0% PROCESSED      44 ITERATIONS      0 ANSWERS
SEARCH TIME: 00.00.01
```

```
FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:   483 TO    1277
PROJECTED ANSWERS:      0 TO      0
```

```
L6      0 SEA SSS SAM L5
```

```
=> s 15 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 155.00 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 11:55:51 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      927 TO ITERATE
```

```
100.0% PROCESSED      927 ITERATIONS      0 ANSWERS
SEARCH TIME: 00.00.01
```

```
L7      0 SEA SSS FUL L5
```

=>

L8 STRUCTURE UPLOADED

=> d 18

L8 HAS NO ANSWERS

L8 STR

=> s 18

SAMPLE SEARCH INITIATED 11:56:41 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 43 TO ITERATE

100.0% PROCESSED 43 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 467 TO 1253

PROJECTED ANSWERS: 0 TO 0

L9 0 SEA SSS SAM L8

=> s 18 full

THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 155.00 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y

FULL SEARCH INITIATED 11:56:45 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 759 TO ITERATE

100.0% PROCESSED 759 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

L10 0 SEA SSS FUL L8

=>

L11 STRUCTURE UPLOADED

=> d 111

L11 HAS NO ANSWERS

L11 STR

=> s 111

SAMPLE SEARCH INITIATED 11:57:41 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 44 TO ITERATE

100.0% PROCESSED 44 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 483 TO 1277

PROJECTED ANSWERS: 0 TO 0

L12 0 SEA SSS SAM L11

=> s 111 full

THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 155.00 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y

FULL SEARCH INITIATED 11:57:46 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 1024 TO ITERATE

100.0% PROCESSED 1024 ITERATIONS

0 ANSWERS

h eb c g cg b cg

eb

SEARCH TIME: 00.00.01

L13 0 SEA SSS FUL L11

=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

467.94

634.87

STN INTERNATIONAL LOGOFF AT 11:58:11 ON 12 AUG 2004